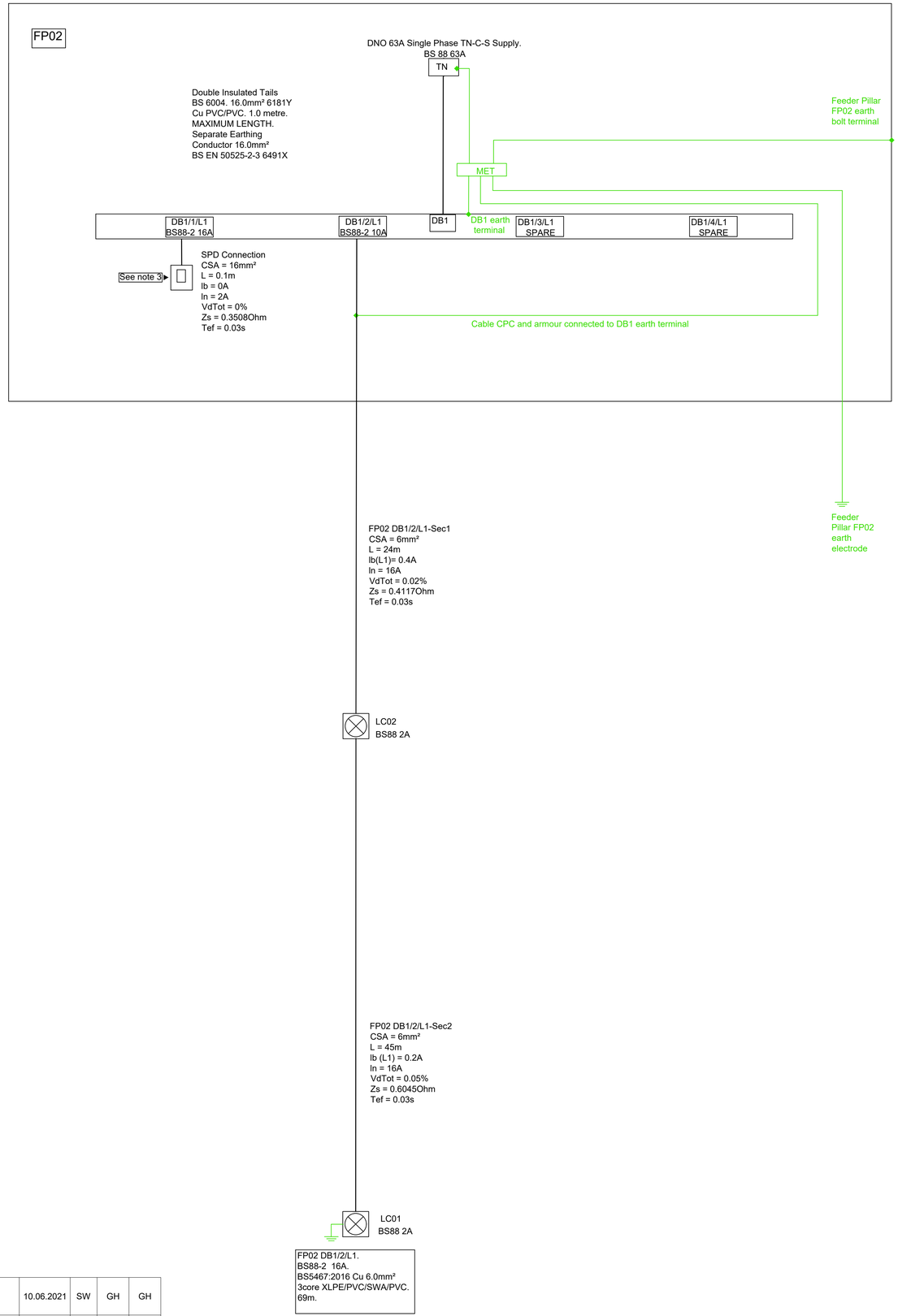

NOTES:

1. THIS DESIGN IS BASED ON A DNO TN-C-S SINGLE PHASE SUPPLY WITH AN ASSUMED DNO MAXIMUM Ze VALUE 0F 0.35Ω, AND A MAXIMUM PSCC OF 16kA. ACTUAL VALUES TO BE CONFIRMED BY MEASUREMENT ON SITE AND RECORDED AS PART OF INITIAL VERIFICATION AFTER CONNECTION AND ENERGISING BY DNO. IF THESE ASSUMED VALUES CANNOT BE MATCHED OR BETTERED THEN THE SCHEME DESIGNER SHALL BE CONSULTED.

2. ALL ELECTRICAL CALCULATIONS AND CIRCUIT PROTECTIVE DEVICES HAVE BEEN SELECTED TO ACHIEVE DISCONNECTION TIMES WITHIN THE MAXIMUM PERMITTED IN ACCORDANCE WITH SECTION 714 OF BS7671:2018+A1:2020. ALL CIRCUIT PROTECTIVE DEVICES TO HAVE EQUIVALENT RATINGS / CHARACTERISTICS AS SPECIFIED IN DRAWING NUMBERS BRT-TG-XX-ZZ-DR-LI-1403, AND BRT-TG-XX-ZZ-CA-LI-1403 CABLE CALCULATION REPORT.

3. A TYPE 1+2 / CLASS I + II SURGE PROTECTIVE DEVICE (SPD) IS TO BE FITTED ON THE LOAD SIDE OF DISTRIBUTION BOARD DB1 TO PROTECT THE INSTALLATION EMANATING FROM FP01 DB1. THE EARTH CONNECTION OF THE SPD SHOULD BE INSTALLED AS STRAIGHT AND SHORT AS POSSIBLE TO THE DISTRIBUTION BOARD EARTH TERMINAL AND NOT EXCEED 0.5 METRES IN LENGTH.

4. ALL FEEDER PILLAR, DUCT ROUTE, AND CONDUIT ROUTE LOCATIONS ARE INDICATIVE. REFERENCE SHOULD BE MADE TO ANY STATUTORY UTILITY DRAWINGS, SITE LAYOUT DRAWINGS, AND ASSOCIATED UTILITY OR CONTRACTUAL DOCUMENTS. FOR VARIATIONS DURING INSTALLATION CONSULTATION WITH THE DESIGNER IS ESSENTIAL. DRAWING NUMBER BRT-TG-XX-ZZ-DR-LI-1302 REFERS.

5. ALL CABLES TYPES TO BE CE MARKED, BASEC APPROVED, RECOGNISED BY BS7671:2018+A1:2020, AND THE CONSTRUCTION PRODUCT REGULATIONS. DECLARATIONS OF PERFORMANCE (DOP) SHALL BE SUBMITTED BY THE CONTRACTOR FOR EACH CABLE TYPE PRIOR TO COMMENCING INSTALLATION. IDENTIFICATION OF ALL CABLE CONDUCTORS SHALL BE AS TABLE 51 OF BS7671:2018+A1:2020. EVERY CORE SHALL BE IDENTIFIABLE BY COLOUR THROUGHOUT ITS LENGTH. ALL CABLES SHALL BE LABELLED APPROPRIATELY AT THE POINT OF EACH TERMINATION. LABELS SHALL BE AN APPROVED PROPRIETARY TYPE. NO HANDWRITTEN LABELS. ALL CABLE LENGTHS ARE ESTIMATED AND SHOULD BE CONFIRMED ON SITE.

6. WHERE APPROPRIATE ALL NEW PRIVATE CABLING TO BE CONTAINED IN TWIN WALLED 100/50 MM DIAMETER SMOOTH INTERNAL PROFILE ORANGE DUCT MARKED "STREET LIGHTING", INSTALLED TO A MINIMUM DEPTH OF 450MM FOOTWAYS AND VERGES, 600MM ROADS, DRIVEWAY, AND ROAD CROSSINGS, TO THE TOP SURFACE OF THE DUCT IN ACCORDANCE WITH NJUG RECOMMENDATIONS. ALL DUCTS TO BE LEFT WITH A ROT PROOF SPARE DRAW CORD OF AT LEAST 5.0kN BREAKING LOAD MADE FAST AT EACH END.

7. EARTH ELECTRODES ARE TO BE INSTALLED IN ACCORDANCE WITH BS7671:2018+A1:2020, AND BS7430:2011+A1:2015 AS INDICATED ON DRAWING NUMBERS BRT-TG-XX-ZZ-DR-LI-1302, BRT-TG-XX-ZZ-DR-LI-1403.

8. ALL ELECTRICAL EQUIPMENT AND WORKMANSHIP SHALL COMPLY WITH CURRENT STANDARDS, CODES OF PRACTICE, KENT COUNTY COUNCIL SPECIFICATION AND THE 1300,1400 SERIES DOCUMENTS AND DRAWINGS. ELECTRICAL WORK IS TO BE CARRIED OUT BY SKILLED PERSONNEL AND SHALL COMPLY WITH AND BE TESTED IN ACCORDANCE WITH THE IET WIRING REGULATIONS BS7671:2018+A1:2020 AND ANY OTHER STATUTORY REQUIREMENTS.

9. ALL LIGHTING UNIT AND FEEDER PILLAR NUMBERING REFERENCED ON DRAWING NUMBERS BRT-TG-XX-ZZ-DR-LI-1302, BRT-TG-XX-ZZ-DR-LI-1403, AND BRT-TG-XX-ZZ-CA-LI-1403 CABLE CALCULATION REPORT ARE FOR IDENTIFICATION PURPOSES FINAL ON-SITE MAINTENANCE NUMBERING IS TO BE CONFIRMED BY THE CLIENT.

10. ON COMPLETION THE INSTALLING CONTRACTOR SHALL PROVIDE INVENTORY INFORMATION AS REQUIRED BY THE CLIENT TO UPDATE THEIR STREET LIGHTING INVENTORY.

11. IT IS THE INSTALLERS RESPONSIBILITY TO ENSURE THAT FEEDER PILLARS ARE SUITABLY SIZED TO ACCOMMODATE ALL DNO, ENERGY METER, AND ELECTRICAL DISTRIBUTION REQUIREMENTS.

STATUS	REV	AMENDMENT DESCRIPTION	DATE	CAD	CHKD	APPD
S3	P01	First Issue - For Comment And Review	10.06.2021	SW	GH	GH

NOT FOR CONSTRUCTION

DESIGNERS

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CLIENT

Tony Gee

PROJECT

FASTRACK BUS NETWORK EXPANSION
(BEAN TUNNELS)

DRAWING TITLE

ELECTRICAL SCHEMATIC
(FEEDER PILLAR 2)

DESIGNED	CAD	CHECKED	APPROVED
JA	SW	GH	GH
DATE DESIGNED	SHEET	SCALE	SHEET SIZE
MAY2021	1 of 1	N.T.S	A1

DRAWING NUMBER
PROJECT -ORIGINATOR -VOLUME -LOCATION -TYPE -ROLE -NUMBER
BRT-TG-XX-DR-LI-1403

JOB NUMBER	STATUS	REVISION
BRT	S3	P01

DFL CAD FILE: C:\Users\AlexElsworth\Designs for Lighting Ltd\Designs for Lighting Ltd Team Site - Documents\Design\Projects\1551 Fastrack Bus Network Expansion (Bean Tunnels)\02-Drawings\BRT-TG-XX-ZZ-DR-LI-1403.dwg